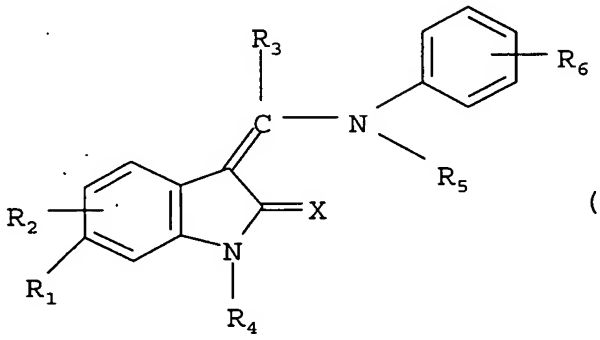
LISTING OF CLAIMS

Claims 1-12 (Previously canceled):

Claim 13. (Currently amended): A compound of the formula (I):



(I),

wherein:

X denotes an oxygen or sulphur atom;

R_1 denotes a C_{2-3}-alkenyl, C_{2-3}-alkynyl, aryl, aryl-C_{1-3}-alkyl, heteroaryl, heteroaryl-C_{1-3}-alkyl, trifluoromethyl or cyano group,

a hydroxy, C_{1-3}-alkoxy, hydroxy-C_{1-3}-alkyl, C_{1-3}-alkoxy-C_{1-3}-alkyl, aryloxy or heteroaryloxy group,

a mercapto, C_{1-3}-alkylsulphenyl, phenylsulphenyl, benzylsulphenyl, C_{1-3}-alkylsulphinyl, phenylsulphinyl, benzylsulphinyl, C_{1-3}-alkylsulphonyl, phenylsulphonyl, benzylsulphonyl, sulpho, C_{1-3}-alkoxysulphonyl, phenoxysulphonyl or benzyloxysulphonyl group,

an amino, C_{1-3}-alkylamino, di-(C_{1-3}-alkyl)-amino, hydroxycarbonyl-C_{1-3}-alkylamino, N-(C_{1-3}-alkyl)-hydroxycarbonyl-C_{1-3}-alkylamino, C_{1-3}-alkoxycarbonyl-C_{1-3}-alkylamino, N-(C_{1-3}-alkyl)-C_{1-3}-alkoxycarbonyl-C_{1-3}-alkylamino, phenylamino, N-phenyl-C_{1-3}-alkylamino,

N,N-diphenylamino, benzylamino, N-benzyl-C_{1-3}-alkylamino, N,N-dibenzylamino, C_{1-3}-alkylcarbonylamino, benzoylamino, benzylcarbonylamino group or an N-(C_{1-3}-alkyl)-C_{1-3}-alkylcarbonylamino group wherein the two alkyl groups are optionally replaced by a C_{2-5}-n-alkylene bridge or wherein one or both alkyl groups are optionally replaced by a phenyl or benzyl group,

a C_{1-3}-alkylsulphonylamino, phenylsulphonylamino or benzylsulphonylamino group or an N-(C_{1-3}-alkyl)-C_{1-3}-alkylsulphonylamino group wherein the two alkyl groups are optionally replaced by a C_{2-5}-n-alkylene bridge or wherein one or both alkyl groups are optionally replaced by a phenyl or benzyl group,

an aminosulphonyl, C_{1-3}-alkylaminosulphonyl, phenylaminosulphonyl, benzylaminosulphonyl, di-(C_{1-3}-alkyl)-aminosulphonyl, N,N-diphenyl-aminosulphonyl or N,N-dibenzyl-aminosulphonyl group,

a phosphono, (C_{1-3}-alkoxy)PO(H), (C_{1-3}-alkoxy)PO(C_{1-3}-alkyl), (C_{1-3}-alkoxy)PO(OH), di-(C_{1-3}-alkoxy)-PO or (C_{2-4}-n-alkylenedioxy)-PO group,

a ureido group optionally mono-, di- or trisubstituted by C_{1-3}-alkyl groups,

a 4- to 7-membered cycloalkyleneimino or cycloalkyleneiminosulphonyl group, wherein in each case the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, -NH or -N(C_{1-3}-alkyl) group;

R_2 denotes a hydrogen, fluorine, chlorine, bromine or iodine atom,

a C_{1-6}-alkyl or trifluoromethyl group,

a hydroxy, C_{1-3}-alkoxy, mercapto, C_{1-3}-alkylsulphenyl, C_{1-3}-alkylsulphinyl, C_{1-3}-alkylsulphonyl, sulpho, C_{1-3}-alkoxysulphonyl, aminosulphonyl, C_{1-3}-alkylaminosulphonyl or di-(C_{1-3}-alkyl)-aminosulphonyl group,

a nitro, amino, C_{1-3}-alkylamino or di-(C_{1-3}-alkyl)-amino group,

a C_{1-3}-alkylcarbonyl, cyano, carboxy, C_{1-3}-alkoxycarbonyl, aminocarbonyl, C_{1-3}-alkylaminocarbonyl or di-(C_{1-3}-alkyl)-aminocarbonyl group,

a phosphono, (C_{1-3}-alkoxy)PO(H), (C_{1-3}-alkoxy)PO(C_{1-3}-alkyl), (C_{1-3}-alkoxy)PO(OH) or di-(C_{1-3}-alkoxy)-PO group,

a 4- to 7-membered cycloalkyleneimino, cycloalkyleneiminocarbonyl or cycloalkyleneiminosulphonyl group, wherein in each case the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, -NH or -N(C_{1-3}-alkyl) group, or

R_1 and R_2 together denote a methylenedioxy, ethylenedioxy, n-propylene, n-butylene or 1,4-butadienylene group;

R_3 denotes

a phenyl ;

R_4 denotes a hydrogen atom or a C_{1-3}-alkyl group;

R_5 denotes a hydrogen atom or a C_{1-3}-alkyl group and

R_6 denotes a hydrogen, fluorine, chlorine, bromine or iodine atom,

a trifluoromethyl or heteroaryl group, a C_{1-3}-alkoxy group optionally substituted by 1 to 3 fluorine atoms, an amino-C_{1-3}-alkoxy, C_{1-3}-alkylamino-C_{2-3}-alkoxy or benzylamino-C_{2-3}-alkoxy group, a cycloalkyleneimino-C_{2-3}-alkoxy group with 4 to 7 ring members, a di-(C_{1-3}-alkyl)-amino-C_{2-3}-alkoxy or C_{1-3}-alkylmercapto group,

a nitro, cyano, carboxy, C_{1-3}-alkoxycarbonyl, aminocarbonyl, C_{1-3}-alkylaminocarbonyl, di-(C_{1-3}-alkyl)-aminocarbonyl, piperidinocarbonyl or tetrazolyl group,

a C_{1-3}-alkylcarbonylamino group optionally substituted at the nitrogen atom by a C_{1-3}-alkyl group,

an imidazolyl or piperazino group optionally substituted at the imino group by a C_{1-3}-alkyl group,

a C_{1-4}-alkyl group, which may be terminally substituted

by a hydroxy, C_{1-3}-alkoxy, carboxy, C_{1-3}-alkoxycarbonyl, amino, C_{1-4}-alkylamino, di-(C_{1-4}-alkyl)-amino, phenylamino, N-phenyl-C_{1-3}-alkylamino, phenyl-n-C_{1-3}-alkylamino, N-(C_{1-3}-alkyl)-phenyl-n-C_{1-3}-alkyl-amino or di-(phenyl-n-C_{1-3}-alkyl)-amino group,

by a 4- to 7-membered cycloalkyleneimino group wherein

a methylene group linked to the imino group is optionally replaced by a carbonyl or sulphonyl group or

one or two hydrogen atoms is optionally replaced by a C_{1-3}-alkyl group and/or

in each case the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally substituted by a carboxy, C_{1-3}-alkoxycarbonyl, aminocarbonyl, C_{1-3}-alkylaminocarbonyl, di-(C_{1-3}-alkyl)-aminocarbonyl, phenyl-n-C_{1-3}-alkylamino or N-(C_{1-3}-alkyl)-phenyl-n-C_{1-3}-alkylamino group or

is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, -NH or -N(C_{1-3}-alkyl) group,

by a 5- to 7-membered cycloalkenyleneimino group wherein the double bond is isolated from the nitrogen atom,

by a C_{4-7}-cycloalkylamino, N-(C_{1-3}-alkyl)-C_{4-7}-cycloalkylamino or C_{5-7}-cycloalkenylamino group wherein position 1 of the ring is not involved in the double bond and wherein the nitrogen atom is optionally substituted by a C_{1-3}-alkyl group,

by a C_{1-3}-alkylcarbonylamino, N-(C_{1-3}-alkyl)-C_{1-3}-alkylcarbonylamino, aminocarbonyl, C_{1-3}-alkylaminocarbonyl or di-(C_{1-3}-alkyl)-aminocarbonyl group,

or R_6 denotes a group of formula

$$-N(R_a)\text{-}CO\text{-}(CH_2)_n\text{-}R_b \quad \text{(II)},$$

wherein

R_a denotes a C_{1-3}-alkyl group,

n one of the numbers 0, 1 or 2 and

R_b denotes an amino, C_{1-4}-alkylamino, phenylamino, N-(C_{1-4}-alkyl)-phenylamino, benzylamino, N-(C_{1-4}-alkyl)-benzylamino or di-(C_{1-4}-alkyl)-amino group or a 4- to 7-membered cycloalkyleneimino group, wherein in each case the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, -NH or -N(C_{1-3}-alkyl) group,

a group of formula

$$-N(R_c)-(CH_2)_m-(CO)_o-R_d \quad \text{(III)},$$

wherein

R_c denotes a C_{1-3}-alkyl, C_{1-3}-alkylcarbonyl, arylcarbonyl, benzylcarbonyl, C_{1-3}-alkylsulphonyl, arylsulphonyl or benzylsulphonyl group,

m denotes one of the numbers 1, 2, 3 or 4,

o denotes one of the numbers 0 or 1 and

R_d has the meanings given for R_b hereinbefore or denotes a di-(C_{1-4}-alkyl)-amino-C_{1-3}-alkylamino group optionally substituted in the 1 position by a C_{1-3}-alkyl group,

or R_6 denotes an N-(C_{1-3}-alkyl)-C_{1-3}-alkylsulphonylamino group;

~~wherein any carboxy, amino or imino group present is optionally substituted by a group which can be cleaved in vivo,~~

or the physiologically acceptable salts and isomers thereof.

Claim 14. (Previously amended): The compound according to claim 13, wherein

X denotes an oxygen atom;

R_1 denotes a C_{1-3}-alkoxy, trifluoromethyl, di-(C_{1-3}-alkyl)-amino, pyrrolidino or pyrrolo group,

an amino or C_{1-3}-alkylamino group wherein an amino-hydrogen atom is optionally replaced by a C_{1-3}-alkylcarbonyl, phenyl-C_{1-3}-alkylcarbonyl, benzoyl, aminocarbonyl, C_{1-3}-alkylsulphonyl, phenylsulphonyl, carboxy-C_{1-3}-alkyl or C_{1-3}-alkyloxycarbonyl-C_{1-3}-alkyl group, or

a phenyl group optionally substituted by a C_{1-3}-alkyl group;

R_2 denotes a hydrogen atom or a C_{1-3}-alkoxy group or

R_1 and R_2 together denote a methylenedioxy group;

R_4 denotes a hydrogen atom;

R_5 denotes a hydrogen atom and

R_6 denotes a hydrogen, fluorine, chlorine, bromine or iodine atom,

a trifluoromethyl, 4-(C_{1-3}-alkyl)-piperazino, pyridinyl, imidazolyl, tetrazolyl, C_{1-3}-alkoxy or C_{1-3}-alkylmercapto group,

a nitro, cyano, carboxy or C_{1-3}-alkyloxycarbonyl group or a C_{1-3}-alkylcarbonylamino group optionally substituted at the nitrogen atom by a C_{1-3}-alkyl group,

a piperidinocarbonyl group or an aminocarbonyl group optionally substituted by one or two C_{1-3}-alkyl groups,

a C_{1-3}-alkyl group optionally terminally substituted

by an amino, C_{1-4}-alkylamino, di-(C_{1-4}-alkyl)-amino, phenylamino, N-phenyl-C_{1-3}-alkylamino, phenyl-n-C_{1-3}-alkylamino, N-(C_{1-3}-alkyl)-phenyl-n-C_{1-3}-alkylamino or di-(phenyl-n-C_{1-3}-alkyl)-amino group, by a pyrrolidino, piperidino, hexamethyleneimino, morpholino, thiomorpholino, 1-oxido-thiomorpholino or piperazino group wherein the piperidino group may additionally be substituted by one or two C_{1-3}-alkyl groups or by a carboxy, C_{1-3}-alkoxycarbonyl, aminocarbonyl, C_{1-3}-alkylaminocarbonyl- di-(C_{1-3}-alkyl)-aminocarbonyl or N-(C_{1-3}-alkyl)-phenyl-n-C_{1-3}-alkylamino group,

by a C_{5-7}-cycloalkylamino or C_{5-7}-cycloalkenylamino group wherein position 1 of the ring is not involved in the double bond,

by a C_{1-3}-alkylcarbonylamino, N-(C_{1-3}-alkyl)-C_{1-3}-alkylcarbonylamino, carboxy, C_{1-3}-alkoxycarbonyl, aminocarbonyl, C_{1-3}-alkylaminocarbonyl or di-(C_{1-3}-alkyl)-aminocarbonyl group,

a C_{1-3}-alkoxy group, which is terminally substituted by an amino, C_{1-3}-alkylamino or di-(C_{1-3}-alkyl)-amino group,

a group of formula

$$-N(R_a)-CO-(CH_2)_n-R_b \quad (II),$$

wherein

R_a denotes a C_{1-3}-alkyl group,

n denotes one of the numbers 0, 1 or 2 and

R_b denotes an amino, C_{1-4}-alkylamino or di-(C_{1-4}-alkyl)-amino group or a pyrrolidino, piperidino, hexamethyleneimino, morpholino, thiomorpholino, 1-oxido-thiomorpholino or piperazino group,

a group of formula

$$-N(R_c)-(CH_2)_m-(CO)_o-R_d \quad \text{(III)},$$

wherein

R_c denotes a C_{1-3}-alkyl, C_{1-3}-alkylcarbonyl or C_{1-3}-alkylsulphonyl group,

m denotes one of the numbers 1, 2, 3 or 4,

o denotes one of the numbers 0 or 1 and

R_d has the meanings given for R_b hereinbefore or denotes a di-(C_{1-4}-alkyl)-amino-C_{1-3}-alkylamino group optionally substituted in the 1 position by a C_{1-3}-alkyl group,

or R_6 denotes an N-(C_{1-3}-alkyl)-C_{1-3}-alkylsulphonylamino group.

Claim 15. (Previously amended): The compound according to claim 13, wherein

X denotes an oxygen atom;

R_1 denotes a methoxy, ethoxy, trifluoromethyl, phenyl, methylphenyl, dimethylamino, pyrrolidino or pyrrolo group,

an amino group which is optionally substituted by a methyl, carboxymethyl, methoxycarbonylmethyl, acetyl, phenylacetyl, benzoyl, methanesulphonyl, benzenesulphonyl or aminocarbonyl group;

R_2 denotes a hydrogen atom, a methoxy or ethoxy group or

R_1 and R_2 together denote a methylenedioxy group;

R_4 denotes a hydrogen atom;

R_5 denotes a hydrogen atom and

R_6 denotes a hydrogen, fluorine, chlorine, bromine or iodine atom,

a methyl, trifluoromethyl, methoxy, ethoxy, methylmercapto, cyano, carboxy, methoxycarbonyl, ethoxycarbonyl, aminocarbonyl, dimethylaminocarbonyl, piperidinocarbonyl, nitro, 4-methyl-piperazino, imidazolyl, pyridinyl or tetrazolyl group,

an ethyloxy or n-propyloxy group terminally substituted by a dimethylamino group,

a methyl or ethyl group substituted by a carboxy, methoxycarbonyl, ethoxycarbonyl, aminocarbonyl or dimethylaminocarbonyl group,

a C_{1-3}-alkyl group, which is optionally terminally substituted

by an amino, C_{1-4}-alkylamino, cyclohexylamino, benzylamino or phenylamino group wherein a hydrogen atom of the amino-nitrogen atom is optionally replaced in each case by a C_{1-3}-alkyl, benzyl, acetyl or dimethylaminocarbonyl group,

by a piperidino group optionally substituted by one or two methyl groups,

by a piperidino group substituted by a carboxy, methoxycarbonyl, ethoxycarbonyl or dimethylaminocarbonyl group,

by a pyrrolidino, 3,4-dehydro-piperidino, hexamethyleneimino, morpholino, thiomorpholino, 1-oxo-thiomorpholino or piperazino group,

a C_{1-3}-alkylamino group wherein the hydrogen atom of the amino-nitrogen atom is replaced

by an ethyl or n-propyl group, each of which is terminally substituted by a dimethylamino group,

by a C_{2-3}-alkanoyl group which is optionally substituted in the 2 or 3 position by an amino, C_{1-3}-alkylamino, di-(C_{1-3}-alkyl)-amino, pyrrolidino, piperidino, morpholino or piperazino group,

by an aminocarbonyl, methylaminocarbonyl, dimethylaminocarbonyl, piperidinocarbonyl or methanesulphonyl group,

wherein the C_{1-3}-alkyl moiety of the C_{1-3}-alkylamino group is further optionally substituted

by an aminocarbonyl group,

by a C_{1-3}-alkylaminocarbonyl or di-(C_{1-3}-alkyl)-aminocarbonyl group wherein a C_{2-3}-alkyl moiety may additionally be terminally substituted by a dimethylamino group,

by a pyrrolidinocarbonyl, piperidinocarbonyl, morpholinocarbonyl or piperazinocarbonyl group,

and wherein the C_{2-3}-alkyl moiety of the abovementioned C_{1-3}-alkylamino group is also further optionally terminally substituted by an amino, C_{1-3}-alkylamino, di-(C_{1-3}-alkyl)-amino, pyrrolidino, piperidino, morpholino or piperazino group.

Claim 16. (Previously added): The compound according to claim 15, wherein

R_2 denotes a hydrogen atom.

Claim 17. (Previously added): The compound according to claim 14, wherein

R_1 and R_2, which are identical or different, each denote a C_{1-3}-alkoxy group.

Claim 18. (Previously amended): The compound according to claim 13, wherein

X denotes an oxygen atom;

R_1 denotes an amino, methoxy or ethoxy group;

R_2 denotes a hydrogen atom or in position 5 a methoxy or ethoxy group;

R_4 and R_5 each denote a hydrogen atom and

R_6 denotes a methyl or ethyl group substituted by a methylamino, ethylamino, piperidino or 4-(dimethylaminocarbonyl)-piperidino group, wherein the amino-hydrogen atom of

the methylamino- and ethylamino group is replaced by a methyl or benzyl group, an N-dimethylaminomethylcarbonyl-N-methyl-amino group or an N-acetyl-N-(C_{2-3}-alkyl)-amino group wherein the C_{2-3}-alkyl moiety in each case is terminally substituted by a dimethylamino group.

Claim 19. (Previously amended): A compound chosen from

(a) 3-(Z)-{1-[4-(piperidin-1-yl-methyl)-anilino]-1-phenyl-methylidene}-5,6-dimethoxy-2-indolinone,

(b) 3-(Z)-(1-{4-[(N-benzyl-N-methyl-amino)-methyl]-anilino}-1-phenyl-methylidene)-5,6-dimethoxy-2-indolinone,

(c) 3-(Z)-{1-(4-(dimethylamino-methyl)-anilino]-1-phenyl-methylidene}-5,6-dimethoxy-2-indolinone,

(d) 3-(Z)-{1-[4-(N-dimethylaminomethylcarbonyl-N-methyl-amino)-anilino]-1-phenyl-methylidene}-5,6-dimethoxy-2-indolinone,

(e) 3-(Z)-(1-{4-[2-(4-dimethylcarboxamide-piperidin-1-yl)-ethyl]-anilino}-1-phenyl-methylidene)-5,6-dimethoxy-2-indolinone,

(g) 6-amino-3-(Z)-{1-[4-(piperidin-1-yl-methyl)-anilino]-1-phenyl-methylidene}-2-indolinone,

(h) 3-(Z)-(1-{4-[N-acetyl-N-(2-dimethylamino-ethyl)-amino]-anilino}-1-phenyl-methylidene)-5,6-dimethoxy-2-indolinone and

(i) 3-(Z)-(1-{4-[N-acetyl-N-(3-dimethylamino-propyl)-amino]-anilino}-1-phenyl-methylidene)-5,6-dimethoxy-2-indolinone

or the physiologically acceptable salts and isomers thereof.

Claim 20. (Previously added): A pharmaceutical composition comprising a therapeutically effective amount of a compound according to claim 13 and one or more inert carriers and/or diluents.

Claim 21-29. (Cancelled)